

**BELT FORCE MEASURING DEVICE**Abstract

5 A belt force measuring device has a measuring spring, the expansion of which is a measure of the belt force. It further has a detector which is arranged on the measuring spring rigidly to a first bearing of the measuring spring.

Furthermore, a sensor element is provided which is arranged on  
10 the measuring spring rigidly to a second bearing of the measuring spring. The measuring spring is arranged and formed such that it expands between the first and second bearing as a function of the belt force.